

## CLAIMS

1. A signal processing apparatus which performs recording or reproduction of information on or from a recording medium which is constituted by a tape, a supply side reel which supplies said tape, and a take-up side reel which takes up said tape supplied from said supply side reel thereon, characterized by comprising:
  - 5 first calculation means for calculating, on the basis of a rotation period of said supply side reel or said take-up side reel, a first length of said tape wound on said supply side reel and a second length of said tape wound on said take-up side reel;
  - 10 acquisition means for acquiring a total length of said tape; and
- 15 second calculation means for correcting said first length or said second length by using the total length of said tape, and calculating a remaining amount of said tape that is recordable or reproducible.

  

- 20 2. A signal processing apparatus according to claim 1, characterized in that said acquisition means acquires the total length of said tape from a memory section built in said recording medium.
- 25 3. A signal processing apparatus according to claim 1, characterized in that said second calculation means multiplies said first length or said second length by a value gotten by dividing the total length of said tape by a sum of said first length and said second length, and
- 30 obtains a resultant value as the remaining amount of said tape.

4. A signal processing method for a signal processing apparatus which performs recording or reproduction of information on or from a recording medium which is  
5 constituted by a tape, a supply side reel which supplies said tape, and a take-up side reel which takes up said tape supplied from said supply side reel thereon, characterized by comprising:

10 a first calculation step of calculating, on the basis of a rotation period of said supply side reel or said take-up side reel, a first length of said tape wound on said supply side reel and a second length of said tape wound on said take-up side reel;

15 an acquisition step of acquiring a total length of said tape; and

a second calculation step of correcting said first length or said second length by using the total length of said tape, and calculating a remaining amount of said tape that is recordable or reproducible.

20 5. A recording medium on which is recorded a computer-readable program for a signal processing apparatus which performs recording or reproduction of information on or from the recording medium which is constituted by a tape, a supply side reel which supplies said tape, and a take-up side reel which takes up said tape supplied from said supply side reel thereon, said program being characterized by comprising:

30 a first calculation control step of controlling calculation, based on a rotation period of said supply side reel or said take-up side reel, of a first length of

said tape wound on said supply side reel and a second length of said tape wound on said take-up side reel;

an acquisition control step of controlling acquisition of a total length of said tape; and

5 a second calculation control step, controlling calculation of a remaining amount of said tape that is recordable or reproducible, of correcting said first length or said second length by using the total length of said tape.

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6. A program for a signal processing apparatus which performs recording or reproduction of information on or from a recording medium which is constituted by a tape, a supply side reel which supplies said tape, and a take-up side reel which takes up said tape supplied from said supply side reel thereon, characterized by causing a computer to execute processing including:

15 a first calculation control step of controlling calculation, based on a rotation period of said supply side reel or said take-up side reel, of a first length of said tape wound on said supply side reel and a second length of said tape wound on said take-up side reel;

20 an acquisition control step of controlling acquisition of a total length of said tape; and

25 a second calculation control step, controlling calculation of a remaining amount of said tape that is recordable or reproducible, of correcting said first length or said second length by using the total length of said tape.

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7. A recording medium characterized by comprising:

a tape on or from which information is to be recorded or reproduced;

a supply side reel on which said tape to be supplied is wound;

5 a take-up side reel onto which said tape supplied from said supply side reel is to be wound; and

a memory part which stores a total length of said tape.